

Material Safety data sheet for AIREX® C70

According to Regulation (EC) No. 1907/2006

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revised: 23.11.2010

1. Identification of substance / preparation and of the company AIREX® C70 Rigid foam (C70.40, C70.48, C70.55, C70.75, C70.90, C70.130, C70.160, C70.200, C70.250) <i>Use of substance / preparation :</i> Core material in sandwich constructions Company identification: Airex AG 5643 Sins, Switzerland Tel +41 41 789 66 00 Fax +41 41 789 66 60
2. Hazards identification AIREX® C70 does not constitute any risk to public health and environment if it is used as intended. <i>Possible health issues:</i> - Harmful to health due to inhaling vapour and dust that may be produced by sawing, grinding and thermoforming. - Harmful to health due to ingesting dust that may be produced by grinding and sawing.
3. Composition / Information on ingredients Rigid polymeric foam on the basis of Polyvinylchloride modified by an interpenetrating polymer network with aromatic amides. <i>Blowing agent:</i> Carbon dioxide (CO ₂ / produced by the reaction of water with isocyanate components). <i>Further ingredients:</i> Residues of chemical blowing agent. Organic colour pigments. Stabilisers.
4. First aid measures <i>Inhalation of processing fumes:</i> Move victim to fresh air; obtain medical attention if irritation persists. <i>Inhalation of gases in case of fire:</i> Move victim to fresh air and obtain medical attention. <i>Skin contact:</i> Wash with water. <i>Eye contact:</i> Flush with water if irritation develops. <i>Ingestion:</i> No special measures required. Seek medical attention if symptoms develop.
5. Fire-fighting measures <i>Suitable extinguishing media:</i> Foam, water spray, extinguishing powder, carbon dioxide. Extinguishing media which must not be used: Direct water jet. <i>Hazardous combustion products:</i> Hydrogen chloride (HCl) and hydrogen cyanide (HCN). Use respiratory protection independent of recirculated air.
6. Accidental release measures No special measures required.
7. Handling and storage <i>Handling:</i> It must be ensured that there is good ventilation and suction on the processing machines and where dust development may occur. <i>Storage:</i> Stow away from immediate and dangerous sources of ignition. Danger of electrostatic charges when stored in very dry areas.

3A COMPOSITES CORE MATERIALS
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8. Exposure control / personal protection

General protection measures:

Sufficient air circulation is required during processing. The exhaust air must not be recirculated. If the workstation cannot be sufficiently ventilated, it is imperative that respiratory protection (A2P3 filter) is worn.

Workstation threshold values:

Dust	Source	Value type	Value (mg/m ³)	Remarks
	SUVA	MAC values	10	Inhalable particles

Gasses / Vapours	Source	Value type	Value (mg/m ³)	Remarks
Tetramethylsuccinonitrile	SUVA	MAC values	3	
Methacrylnitrile	SUVA	MAC values	3	

Personal protection equipment

Respiratory protection: Effective breathing mask

Hand protection: Gloves

Eye protection: Goggles

9. Physical and chemical properties

Physical state / form: Polymer foam sheet with visible cell structure.

Colour: Various, depending on density.

Glass transition temperature: 65 to 80 °C ISO 537

Decomposition temperature: > 220 °C

Flash ignition temperature: 380 °C ASTM D 1929

Density: 30 - 350 kg/m³ ISO 845

Solubility: Insoluble in: Water, sea water, acids, alkalis, aliphatic hydrocarbons

Soluble in: Aromatic hydrocarbons, Ketones, chlorinated hydrocarbons

10. Stability and reactivity

General information: Stable under normal conditions

Conditions to avoid: High temperatures (> 180 °C)

Materials to avoid: Not applicable.

Dangerous decomposition products: Tetramethylsuccinonitrile (TMSN)
Methacrylnitrile
Isobutyronitrile
Hydrogen chloride (HCl)
Hydrogen cyanide (HCN) in small amounts
Carbon monoxide (CO)
Carbon dioxide (CO₂)

11. Toxicological information

Toxicological tests: No data available.

Experience with man:

Skin contact: Grinding dust may cause irritation to people with sensitive skin.

Eye contact: Dust may cause irritation.

Inhalation: Dust may cause irritation of respiration tract. Dizziness, nausea and headaches may occur if processing (sawing, grinding or tempering) is performed without sufficient ventilation and respiratory protection over several hours in small, poorly ventilated areas.

Ingestion: No symptoms known.

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12. Ecological information <i>Ecotoxicity:</i> The total amount of all heavy metals is <100 mg/kg [ppm]. <i>Mobility:</i> Not soluble in water, therefore effects on groundwater are unlikely. <i>Persistence and degradability:</i> Biologically not degradable.
13. Disposal considerations Subject to legislation by local authorities, the product can be disposed of together with domestic refuse and industrial waste. Waste and residues can be incinerated in a plant equipped with flue gas washing, together with domestic waste.
14. Transport information Railroad RID No restriction. Road ADR No restriction. Sea IMDG Code No restriction. Air ICAO-TI/IATA-DGR No restriction. UN-Classification Not required.
15. Regulatory information AIREX® C70 rigid plastic foam does not require marking under the dangerous substances and preparation directives 67/548/EWG and 1999/45/EG.
16. Other information This issue of the safety data sheet replaces the issue released on 16.09.2009. The information given in this material safety data sheet is accurate to the best of our knowledge, but without any guarantee. It is given in good faith based on the current state of knowledge and experience. It is issued in respect of safety requirements and does not purpose to provide information on the quality of the material.